

BREI LANDFILL

(Muscatine, Iowa)

GENERAL DESCRIPTION

The Brei Landfill is located on a farm about 5 1/2 miles east of the corporate limits of Muscatine, Iowa. The site occupies approximately 21 acres in the SW 1/4 of the SE 1/4 of Section 24, T77N, R1W, Muscatine County, Iowa. The site is located in the middle of a 204-acre farm owned by Paul Stamler, Jr. The site was entered on the Registry in August 1990.

SITE CLASSIFICATION

The site is classified "d" in accordance with 455B.427.3. The site is properly closed but requires continued management.

TYPE AND QUANTITY OF HAZARDOUS WASTE

- **Vinyl chloride, trans-1-2-dichloroethene, 1,2-dichloropropane, ethylbenzene, 1,1,1-trichloroethane, methylene chloride, toluene, and xylenes**
- **Industrial waste included an estimated 802,000 pounds of paint sludge and 10,000 tons of tannery sludge.**

The city of Muscatine operated a non-permitted dump at the site from August 1968 through December 1975 before the implementation of the state's program of industrial waste tracking. Municipal and industrial wastes were dumped into ravines 30 to 50 feet deep. The trash and commercial wastes were not covered and generally not burned.

In April 1985 the Iowa Department of Water, Air, and Waste Management (IDWAWM) collected a water sample from the intermittent creek leading away from the landfill and from a residential well after the owner expressed concern over the quality of the water. Water samples collected contained vinyl chloride, trans-1-2-dichloroethene, 1,2-dichloropropane, ethylbenzene, 1,1,1-trichloroethane, methylene chloride, toluene, and xylenes.

SUMMARY OF PUBLIC HEALTH AND ENVIRONMENTAL CONCERNS

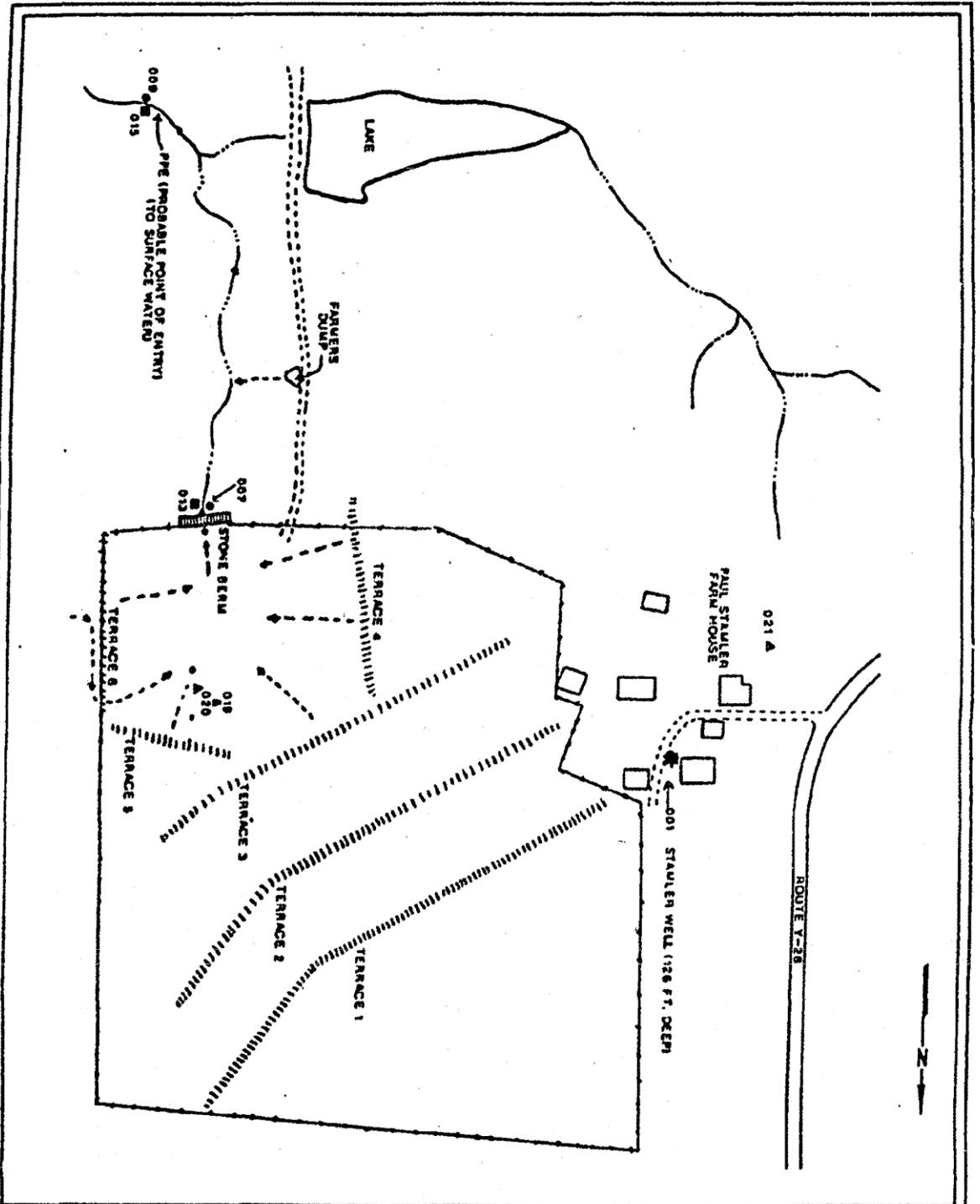
- **The primary public health concern is exposure to contaminated drinking water in surrounding private wells**
- **The primary environmental concern(s) are leachate from site to surface water and general groundwater quality**

The only source of drinking water within a four-mile radius of the site are private wells. There appear to be eleven active, private wells located within a half-mile radius of the site. The Iowa Department of Natural Resources fish hatchery is also approximately a mile south-southeast of the site.

SUMMARY OF ASSESSMENT, MONITORING OR REMEDIATION

The EPA has referred the site back to state authority with a recommendation for further surface water and groundwater monitoring. There are no monitoring wells on-site. The absence of a liner beneath the landfill increases the potential for the release of contaminants to surface and groundwater.

(See Figure 3 for Off-Site Sample Locations)



- EXPLANATION**
- SURFACE WATER SAMPLE
 - ▲ GROUND WATER SAMPLE
 - SOIL SAMPLE
 - SEDIMENT SAMPLE
 - 001 SAMPLE CHUBBIE
 - ▤ BUILDINGS
 - ▥ UNSURFACED ROAD
 - ▧ SURFACED ROAD
 - ▨ FENCE
 - ▩ INTERMITTENT CREEK
 - SURFACE DRAINAGE

SAMPLING DATE
NOV. 30 - DEC. 1, 1986

BREIL LANDFILL SITE
MUSCATINE, IOWA

SCALE
0 200 400
FEET

PLT DEC. 1986

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SAMPLE LOCATION MAP